

Questions

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- Please limit your questions to one to allow everyone the opportunity to speak this evening. We will return to you for follow-on questions as time allows.
- Please limit your questions to the permit modifications described tonight. If you have other questions, please contact the community relations representatives listed below who will find the best resource to answer your questions.
- Please fill out a survey and let us know how you would like to engage with us and learn more about BAE Systems and the Radford Army Ammunition Plant.

Resources

Charlie Saks

Public Affairs Officer US Army 540.731.5785 charles.e.saks3.civ@mail.mil www.rfaap.army.mil

Alicia Gray

Community Relations BAE Systems 540.639.7709

alicia.gray@baesystems.comVA 23219; www.baesystems.com phone 804-

Russell McAvoy

Environmental Engineer Senior
Virginia Department of Environmental Qu
629 East Main Street, Richmond,

phone 804-698-4194 fax 804-698-4234l

russell.mcavoy@deq.virginia.gov



Radford Army Ammunition Plant

Review of Modification request for Radford Army Ammunition Plant RCRA Subpart X Open Burn Area Permit

23 April, 2013



Agenda

- Introduction
- BAE Systems Overview
- BAE Systems Environmental Stewardship Overview
- Waste Management Overview
 - Open Burning Ground (OBG)
- Specifics of the changes to the OBG Permit
- Questions



Introductions

BAE Systems

Alicia Gray

Community Relations, Radford Alicia.gray@baesystems.com

Bob Winstead

Environmental Manager, OSI

Jay Stewart

Environmental Manager, Radford

<u>Draper Aden Associates</u> Michael D. Lawless, CPG, PG

Principal / Vice President Environmental Division Manager

US Army

Charlie Saks

Public Affairs Officer, RFAAP Charles.e.saks3.civ@mail.mil

LTC William Byron Penland

Commander, Radford Army Ammunition Plant (RFAAP)

Rob Davie

Chief, Operations Team, US Army, RFAAP

BAE Systems, Inc.

Led by Linda Hudson, President and CEO, BAE Systems, Inc. delivers a full range of products and services for air, land and naval forces, as well as advanced electronics, security, information technology solutions and support services.

BAE Systems, Inc. is a top-ten prime contractor to the U.S. Department of Defense and is well positioned to support customers in what is the world's largest single defense market.

Key Facts:

- Employs 40,100 (34,000 in the U.S.) with major operations in 38 states, the UK, Sweden, Israel, and South Africa
- Recorded 2012 sales of \$12.75bn
- The U.S.-based business operates under a Special Security Agreement
- Holds more than 2,100 U.S. and foreign patents across technology domains
- Comprises four U.S.-headquartered business sectors:
 - Electronic Systems
 - Intelligence & Security
 - Land & Armaments
 - Support Solutions



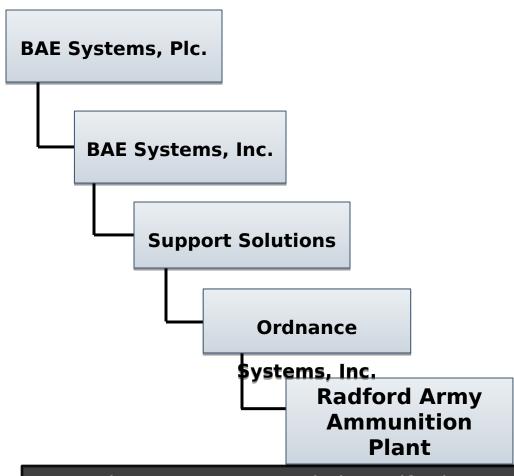








Ordnance Systems Inc.





Employs over 750 people in Radford, VA and the surrounding communities



Site General Overview -- Mission



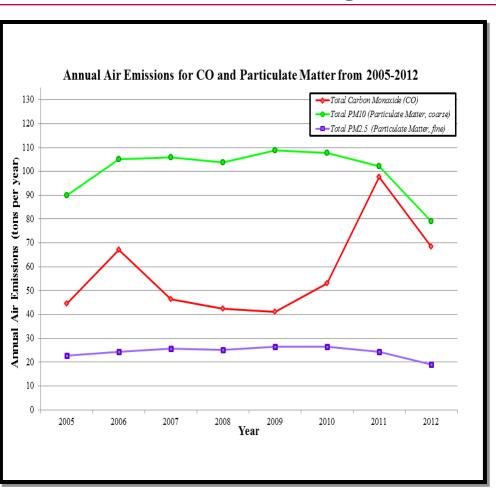


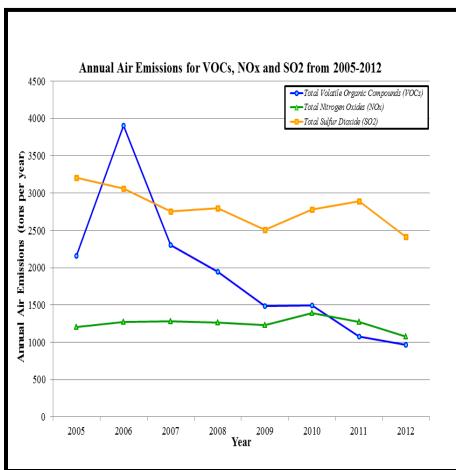
BAE Systems Environmental Stewardship

In partnership with the US Army and the United Steel Workers Union, BAE Systems and all of its employees will operate the Radford facility in a manner that strives to meet the needs of our current generation of Warfighter without compromising the resources of future generations in the New River Valley. The employees of Team Radford will comply with all applicable legal requirements to promote environmental protection and enhancement and exceed those requirements when possible.



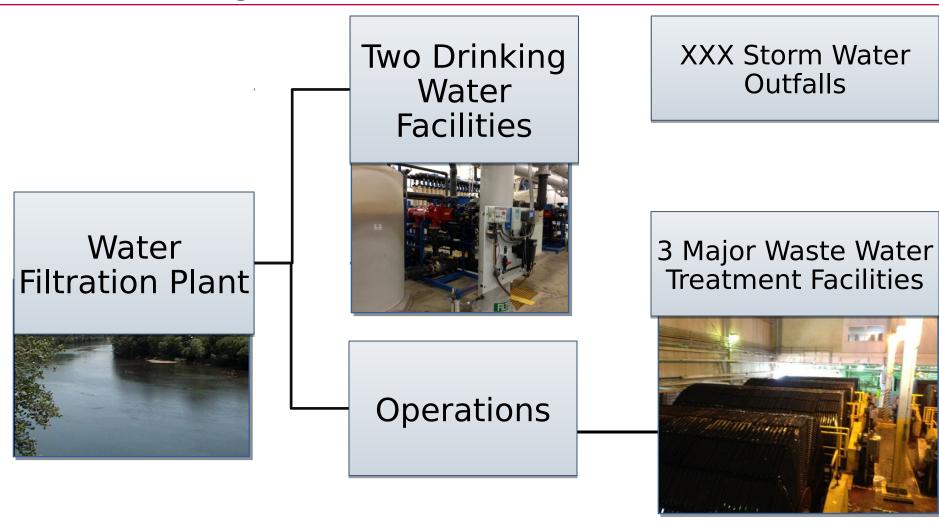
Robust Air Tracking and Reporting







Water Management





Waste Management

BAE's defined policy for dealing with nitrocellulose and other energetic wastes is:

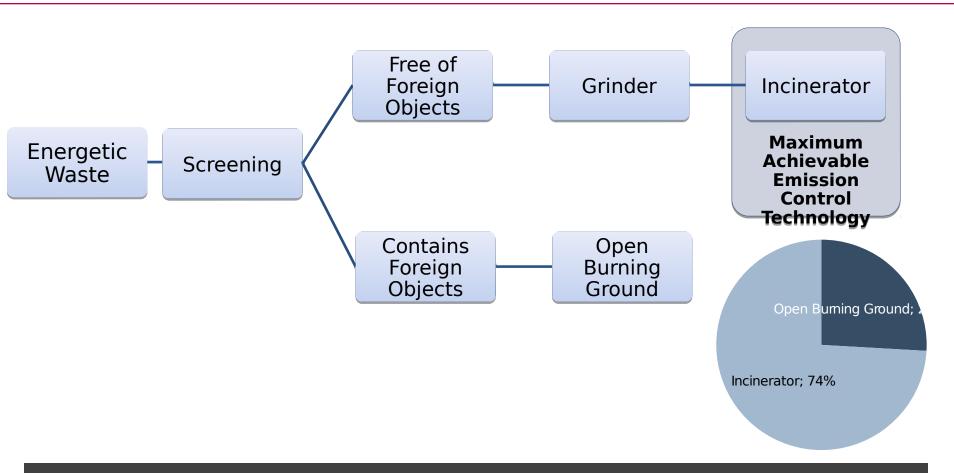
- 1. **REDUCE** Waste generation at the various sources
 - 2. **RECYCLE** propellant where safe and allowed by military specifications.
 - specifications.

 3. Proper DISPOSAL in accordance with all Virginia Department of Environmental Quality (DEQ) and Federal Environmental Protection Agency (EPA) regulations and requirements.





Energetic Waste Disposal Process



Open burning is the safest disposal route of last resort



Modification Request Sent to the DEQ

<u>Item</u>

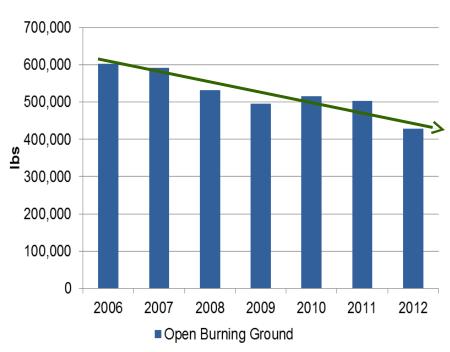
- 1. Modification of Module IV
 - Detection Monitoring
- 2. Modification of Attachment IV.A
 - Groundwater Monitoring Program Sampling and Analysis Plan
- Modification of Module V
 - Groundwater Compliance Monitoring Program
- 4. Modification of Module VII
 - Corrective Action and Groundwater Monitoring Program
- 5. Modification of Module III
 - Operating Conditions

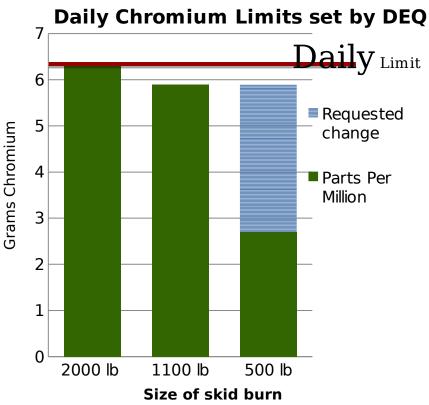


Why did BAE Systems ask for a change in small burn chromium concentrations?

 Due to a decrease in total energetic wastes going to the open burn area, BAE Requested a change in the Chromium concentration for small (500 pound) burns in order to increase operational flexibility, NOT an increase in total Chromium emissions.

Total Energetic Wastes going to OBG







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